08077 020802

Fig. 1

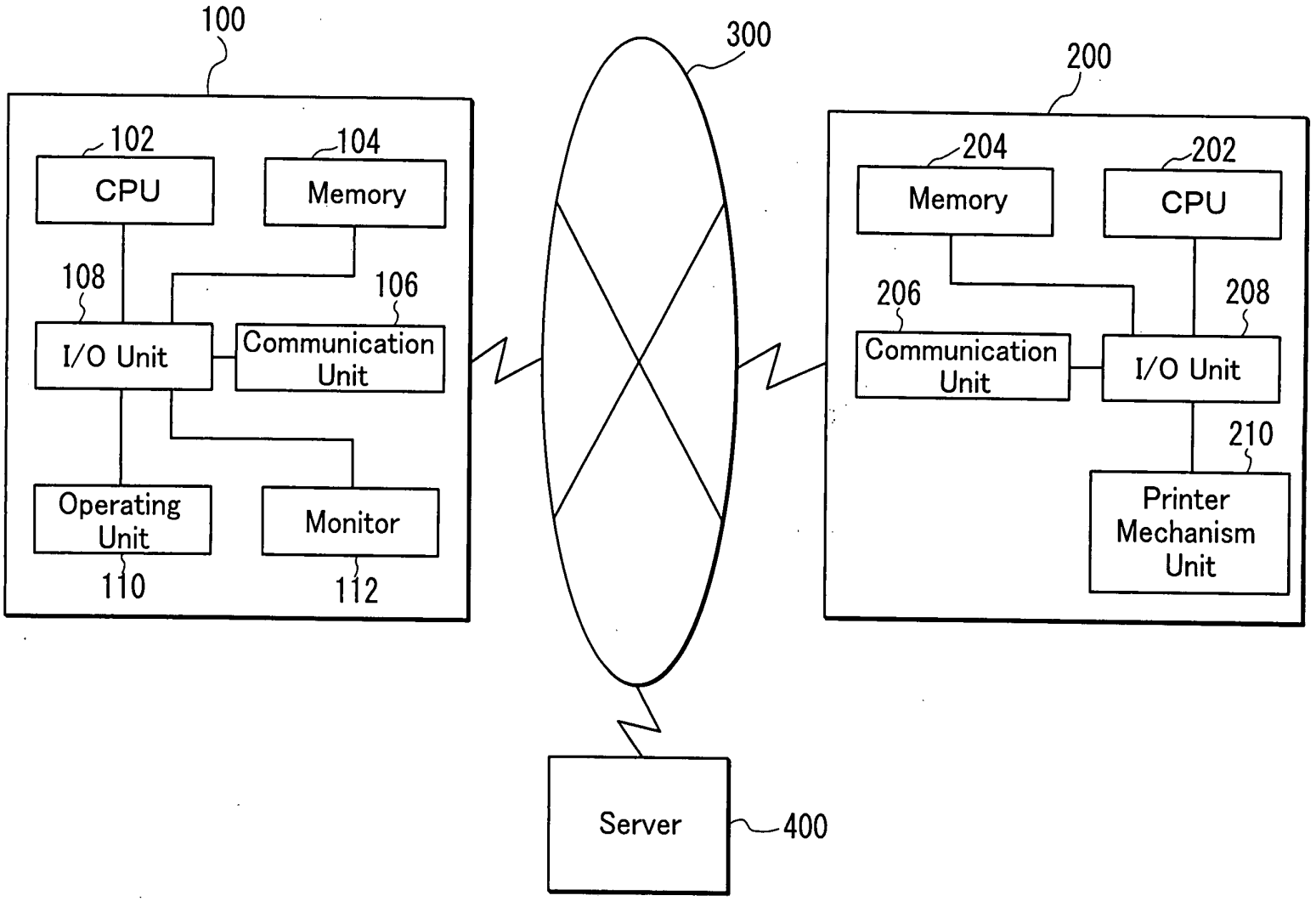

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Fig.2

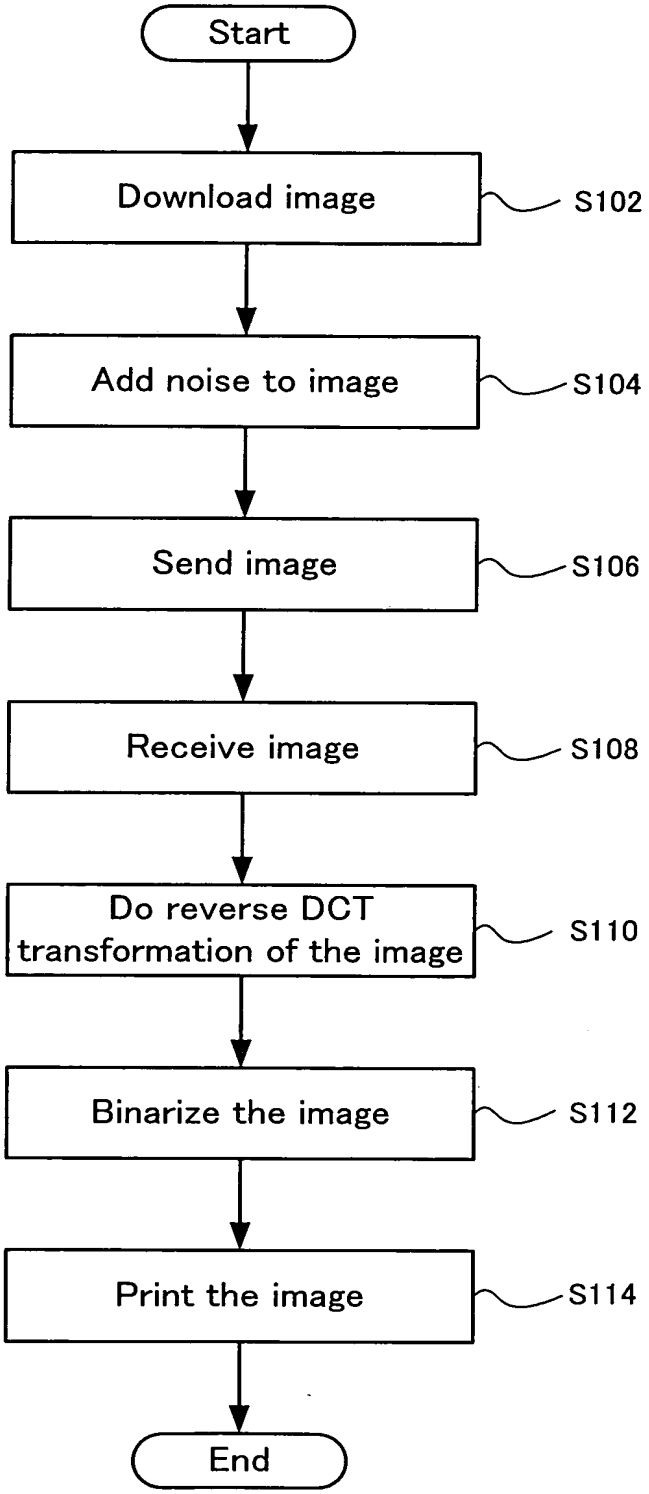

Start
Download image
S102
Add noise to image
S104
Send image
S106
Receive image
S108
Do reverse DCT transformation of the image
S110
Binarize the image
S112
Print the image
S114
End

Fig.3

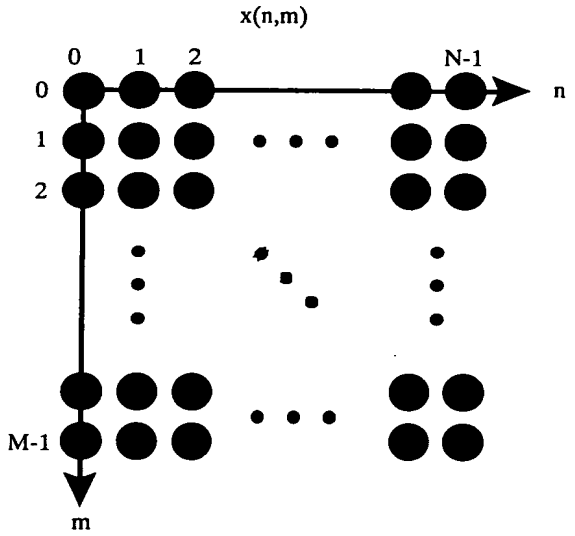
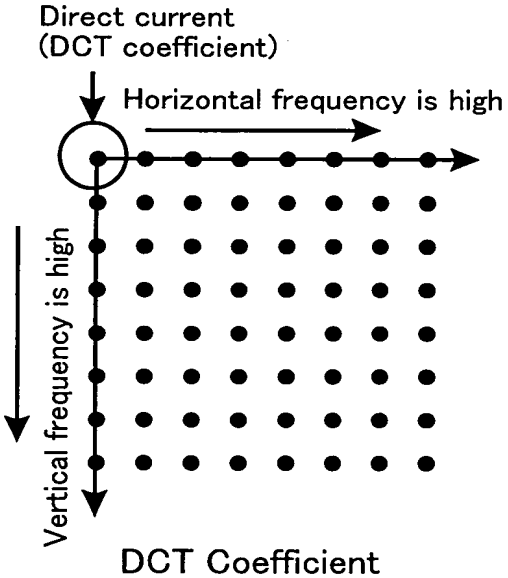
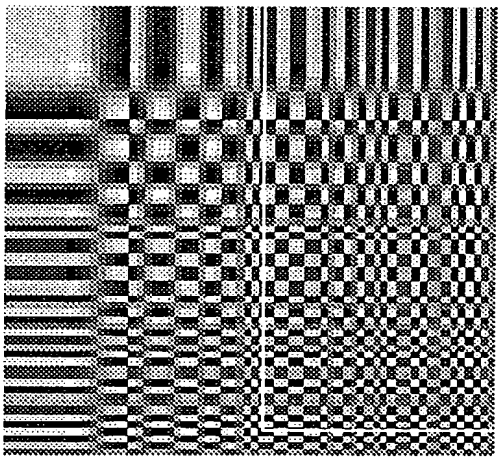


Fig.4A

Fig.4B



DCT Coefficient



DCT Base Image

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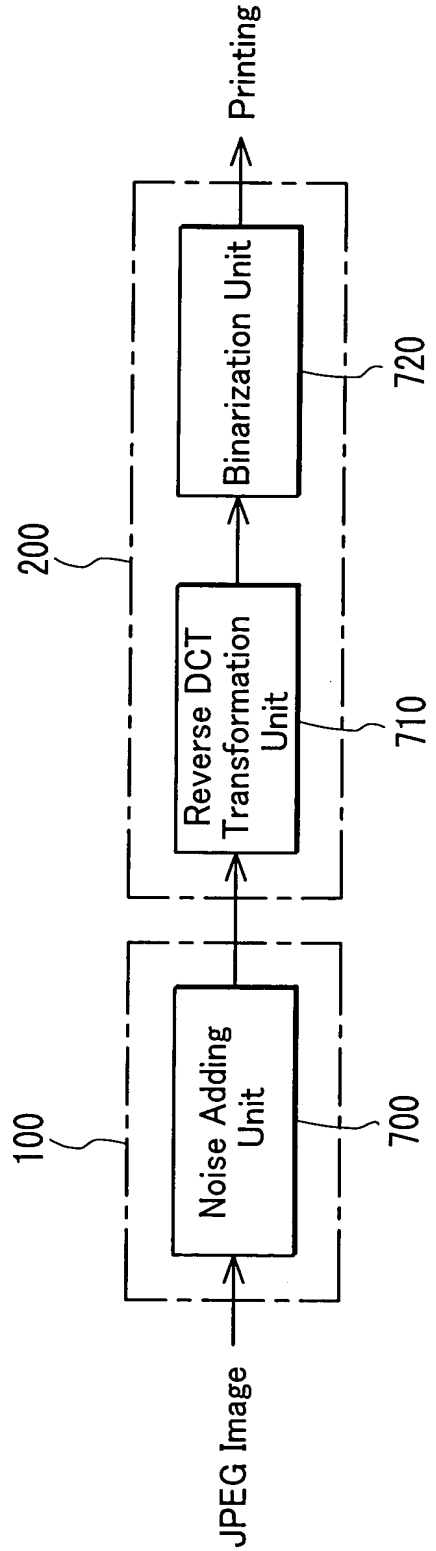


Fig.5

Fig.6

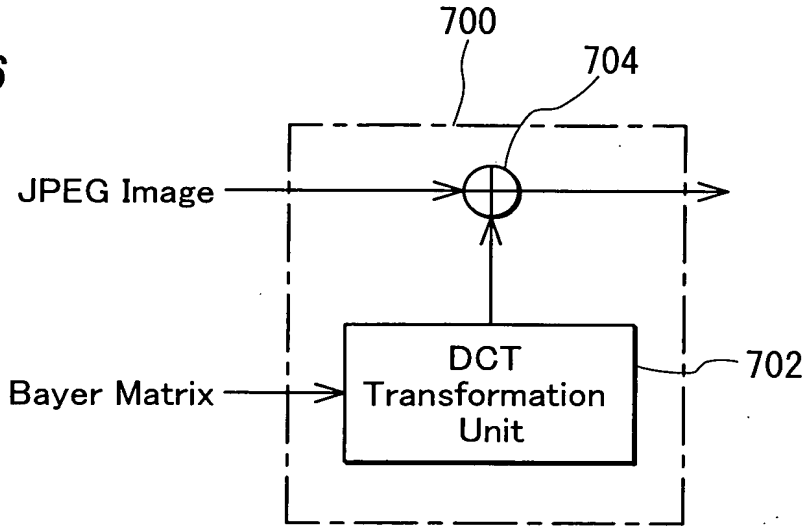


Fig.7

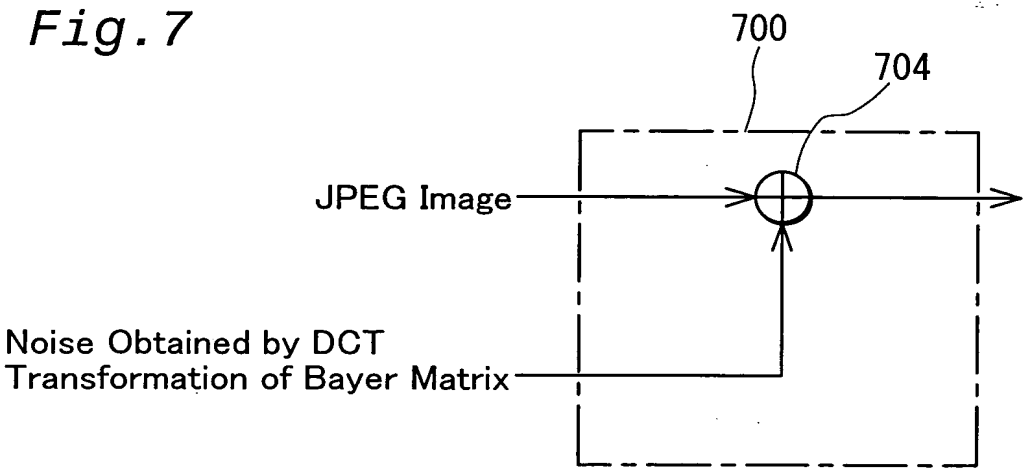


Fig.8

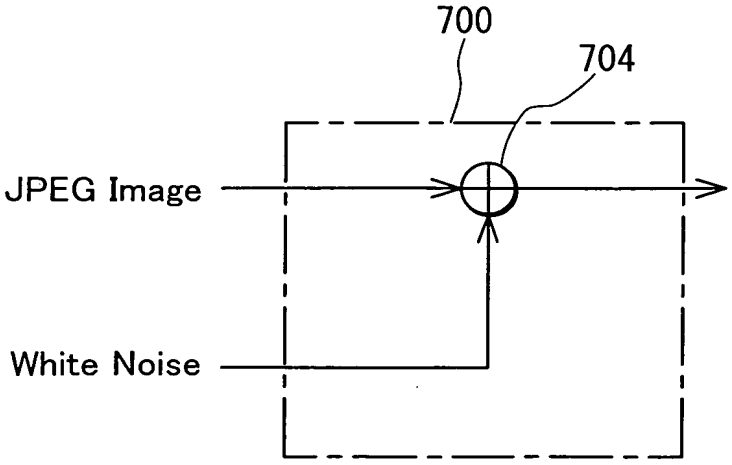


Fig.9

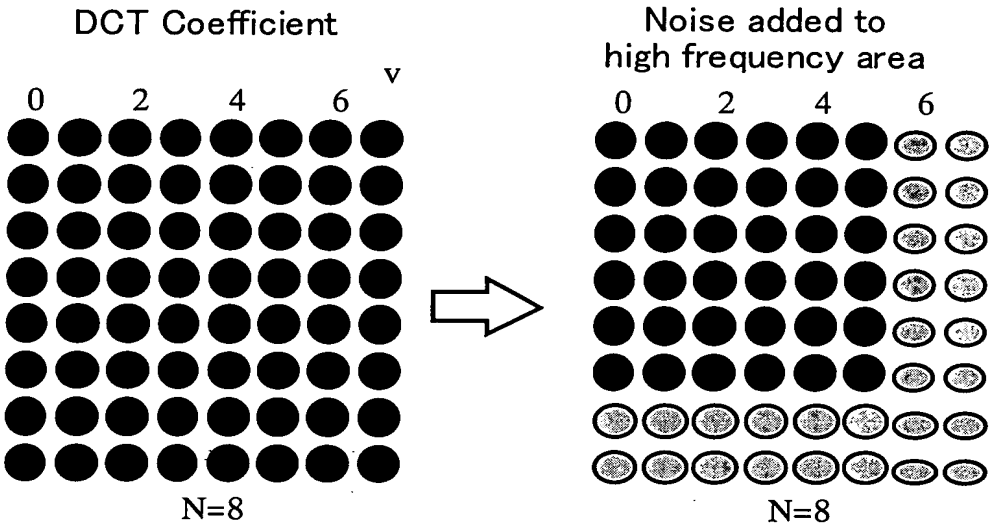

DCT Coefficient
v
0
2
4
6
N=8
Noise added to
high frequency area
0
2
4
6
N=8

Fig. 10A

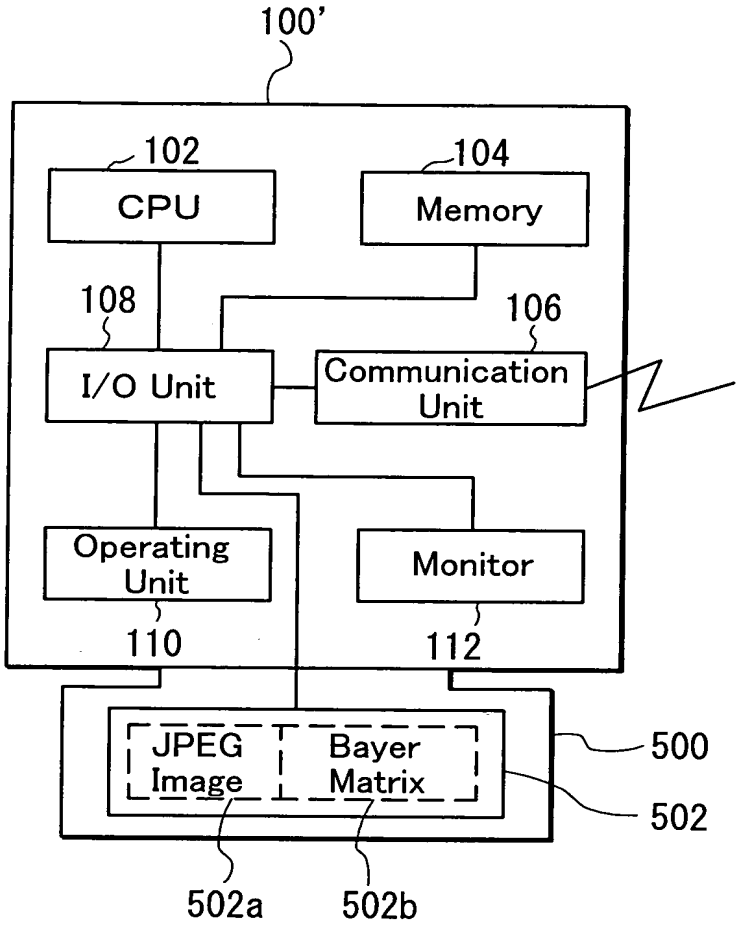
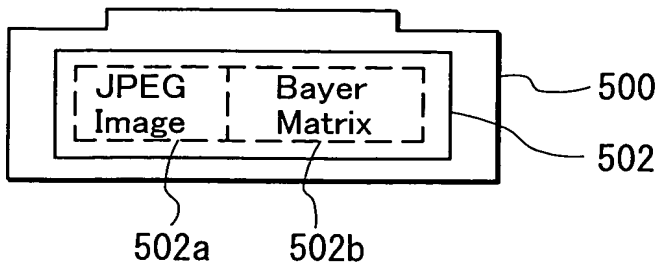
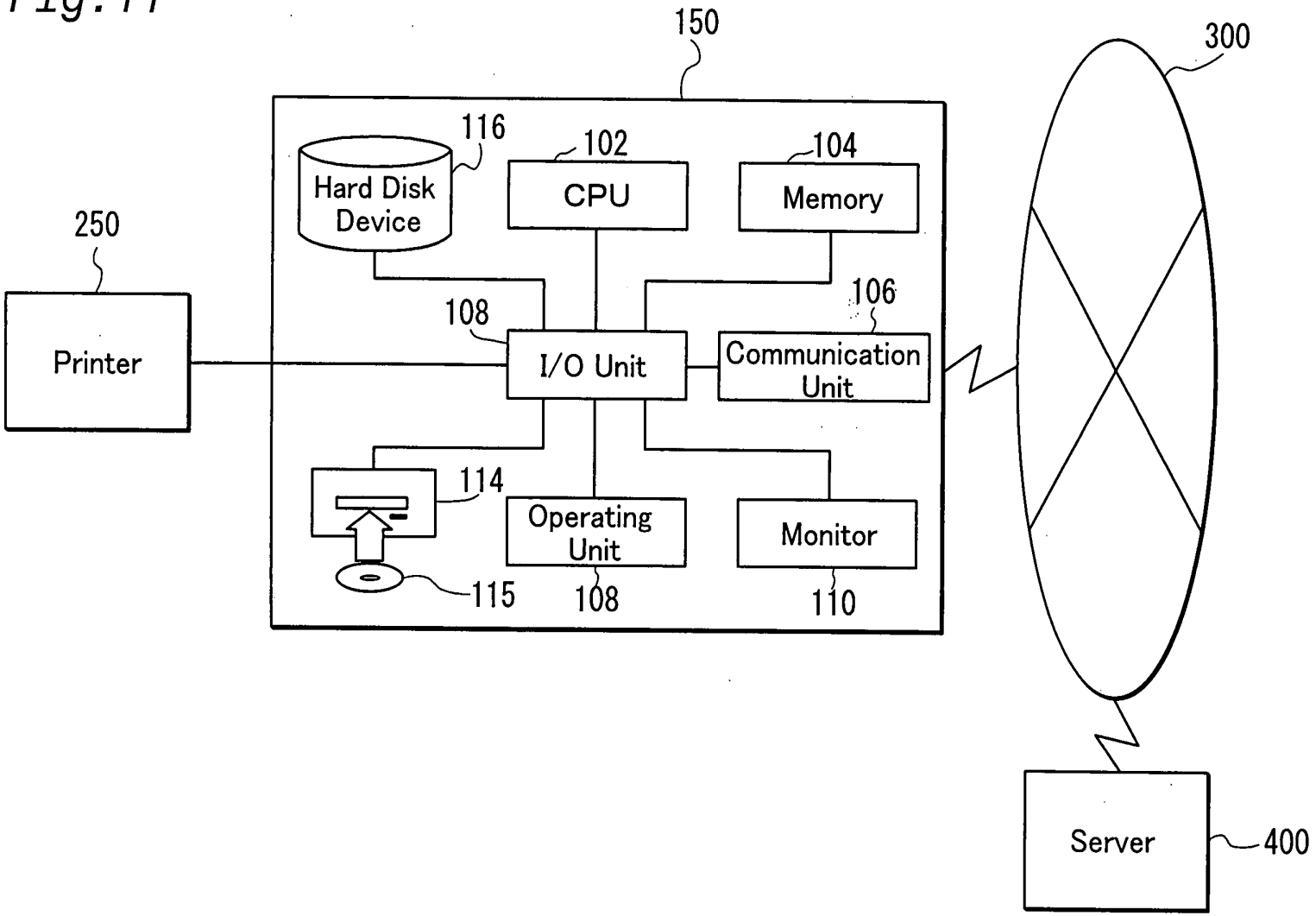


Fig. 10B



08807T 020802&0

Fig.11



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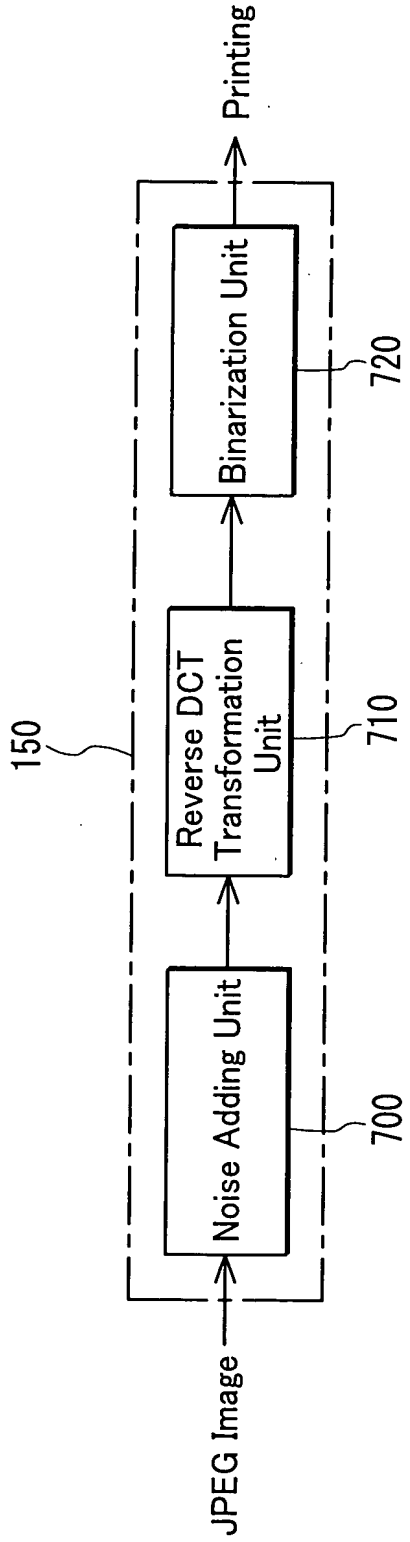
JPEG Image
Noise Adding Unit
700
Reverse DCT Transformation Unit
710
Binarization Unit
720
Printing
150

Fig. 12